



# How to Repair Displaced Engine Gears in a Remote Controlled Helicopter

This guide will teach you how to open up your RC Heli, locate the problematic gear, reset it to its functioning position, and ultimately fix your helicopter.

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## INTRODUCTION

If the rotors will not turn on your RC Heli and it will not take off, you might have knocked one of the engine conversion gears out of place. Easily access the gear box of your helicopter and repair it with this easy fix.

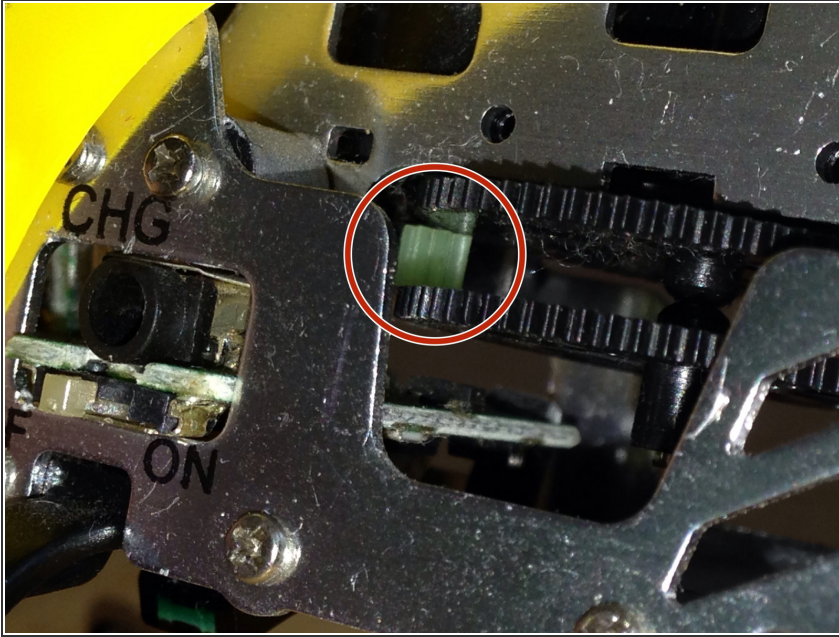
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### TOOLS:

- [Screwdriver](#) (1)
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## Step 1 — How to Repair Displaced Engine Gears in a Remote Controlled Helicopter



- Locate the problematic engine gear inside the helicopter frame.
- ❗ It will seem out of place and will not connect with the rotor gear.
- ❗ The white gear can be clearly seen out of place and not in contact with the upper rotor gear. This does not allow the blades to spin.

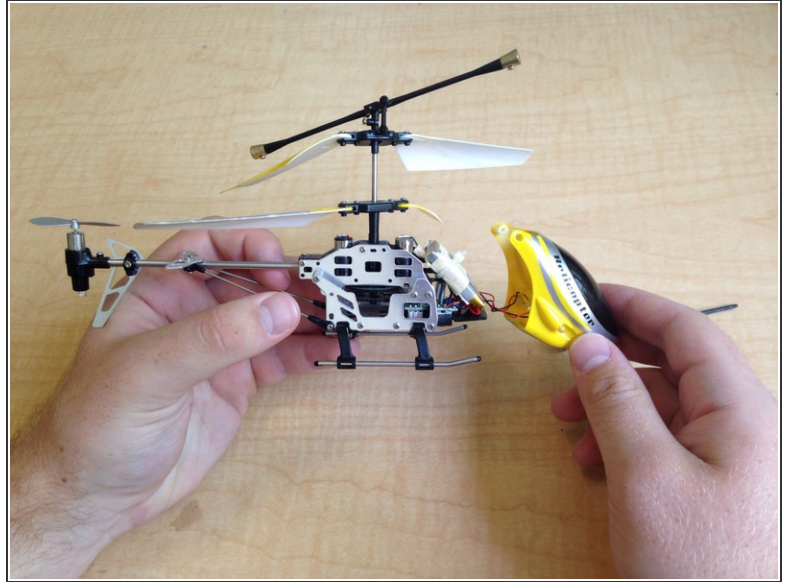
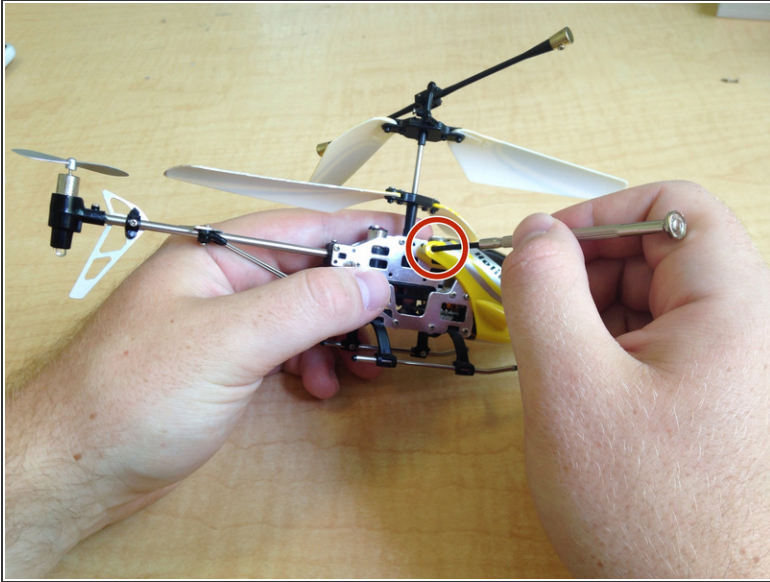
## Step 2



- Grab the screwdriver that will fit the screws on your specific model.
- ❗ The screws may not be the same sizes on your RC Heli.
- ★ Keep track of where the screws came from.

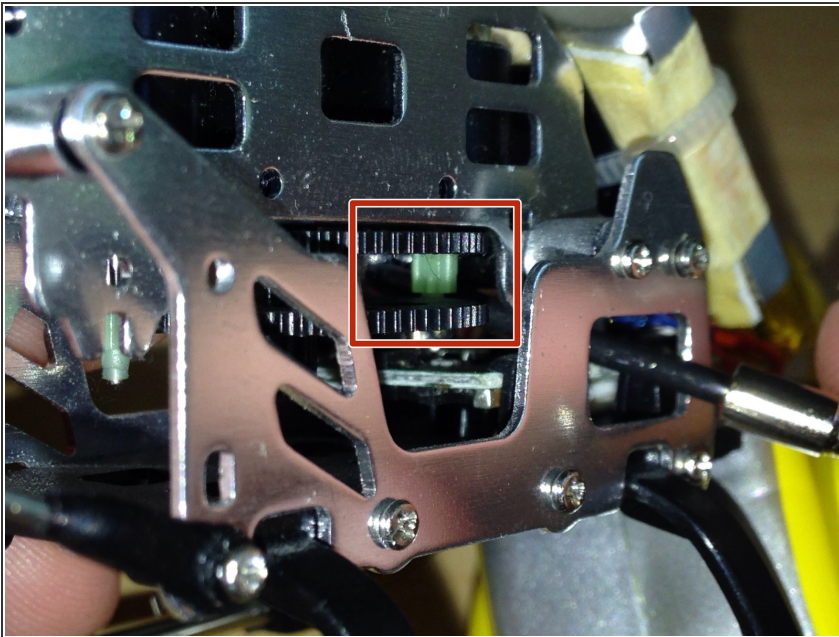


### Step 3



- Unscrew the decorative/protective shroud blocking your access to the inside of the helicopter.

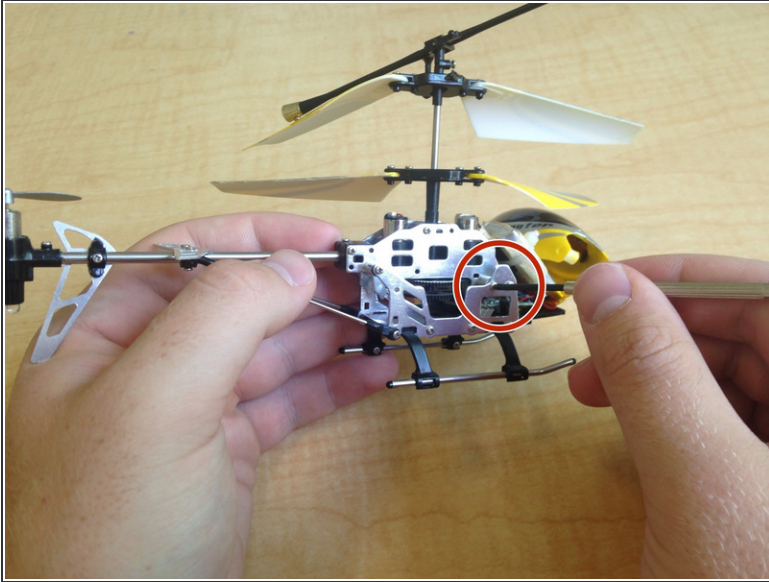
### Step 4



- If it is possible to reset the gear without unscrewing further, attempt to push the gear back up into place on the motor shaft with a screwdriver or your finger.
  - ⓘ If this works you have fixed the gear and can skip to step 7.
  - ⓘ If the gear is inaccessible you will have to open the frame, go to step 5.

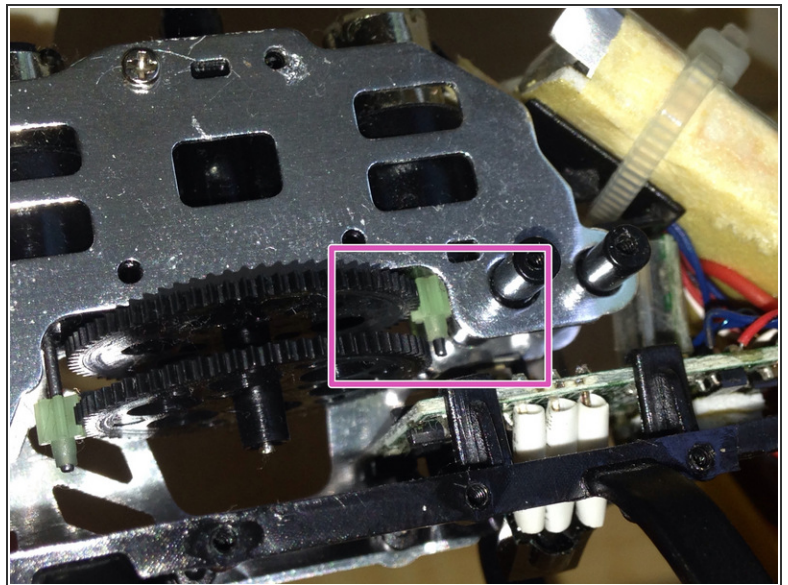
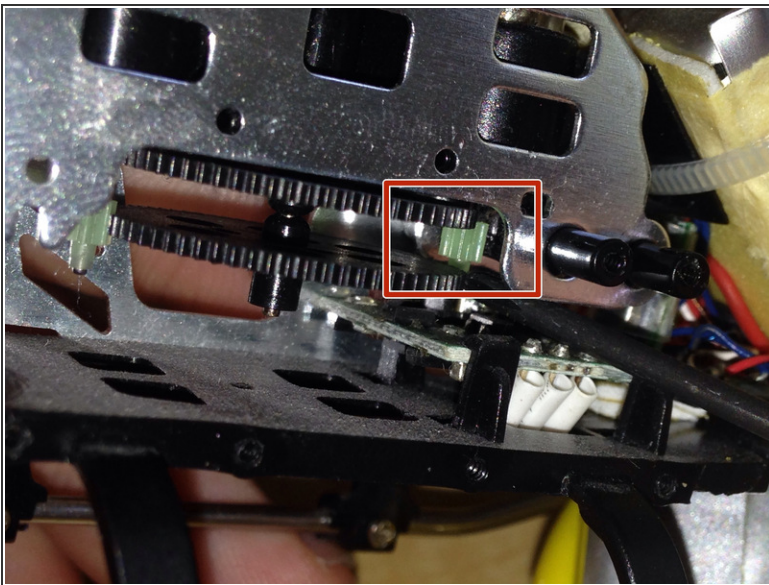


## Step 5



- Unscrew one side of the frame and set it aside, allowing access to the gear.
- ☑ Make sure all the screws and frame pieces are kept in a secure location.

## Step 6



- Place the screwdriver's tip underneath the clear motor gear.
- Firmly push the gear back up into place so that it correctly connects with the main rotor gear.
- ① See the last picture for a proper gear connection visual.

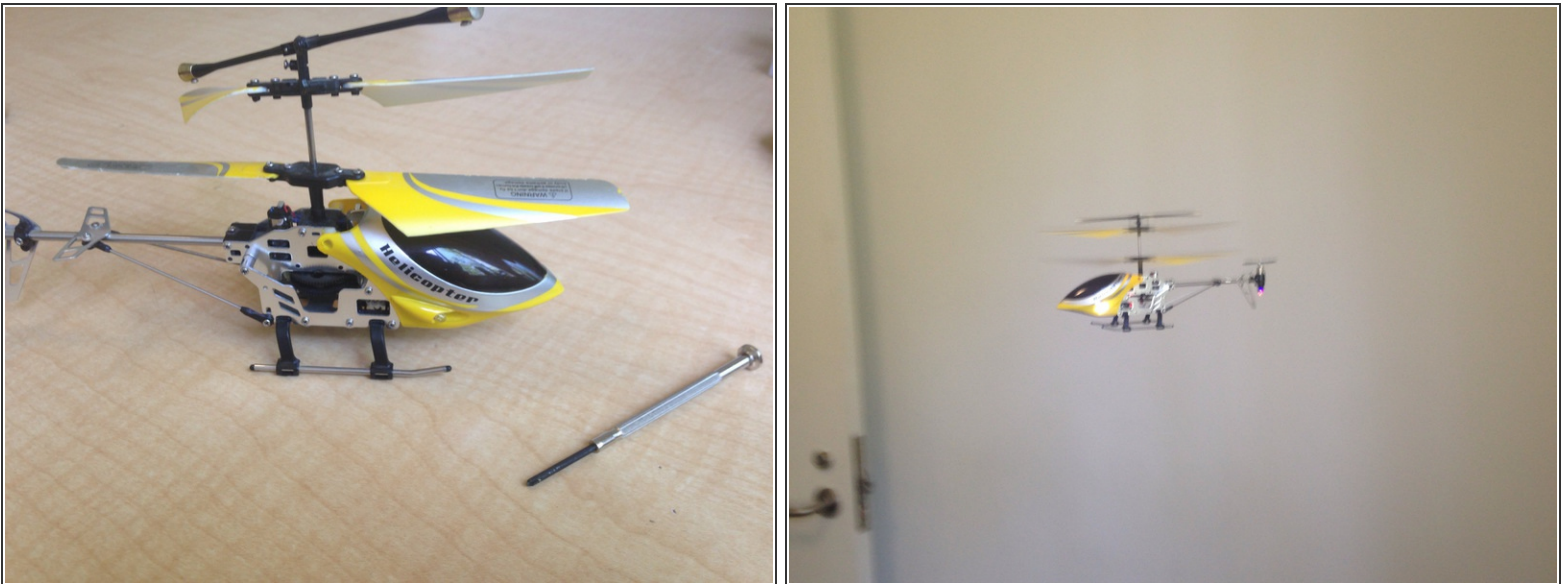


## Step 7



- Return all the pieces to their original place inside the frame.
- Screw the frame tightly back into place.

## Step 8



- Test the helicopter for functionality.
- If it works then the helicopter is fixed and you can screw the shroud back into place.

To reassemble, after testing for functionality, make sure all inner parts are back in their original location. Screw the frame and shroud tightly back in place.

